

FRIANYL® B3 H V0

FRIANYL®

Designed for any electrical application that require self-extinguishing properties, excellent surface quality and flexibility of use.

Product information

Resin Identification	PA6-FR(30)	ISO 1043
Part Marking Code	>PA6-FR(30)<	ISO 11469

Rheological properties

Moulding shrinkage range, parallel	1.1 - 1.5 %	ISO 294-4, 2577
Moulding shrinkage range, normal	1.1 - 1.5 %	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	3300	/-	MPa
Tensile stress at yield, 50mm/min	70	/-	MPa
Tensile strain at yield, 50mm/min	3.2	/-	%
Flexural modulus	3000	/-	MPa
Flexural strength	120	/-	MPa
Charpy impact strength, 23°C	40	/-	kJ/m²
Charpy notched impact strength, 23°C	3	/-	kJ/m²
Izod notched impact strength, 23°C	3.5	/-	kJ/m²
Poisson's ratio	0.37	/-[C]	

[C]: Calculated

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	225	/*	°C
Temperature of deflection under load, 1.8 MPa	70	/*	°C
Temperature of deflection under load, 0.45 MPa	190	/*	°C
RTI, electrical, 0.75mm	130		°C
RTI, impact, 0.75mm	95		°C
RTI, strength, 0.75mm	130		°C

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	V-0	/*	class
Burning Behav. at thickness h	V-0	/*	class
Thickness tested	0.8	/*	mm
UL recognition	yes	/*	
Glow Wire Flammability Index, 0.75mm	960	/-	°C
Glow Wire Flammability Index, 3.0mm	960	/-	°C

Electrical properties

	dry/cond.		
Comparative tracking index	600	/-	IEC 60112

FRIANYL® B3 H V0

FRIANYL®

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2/*	%	Sim. to ISO 62
Water absorption, 2mm	9/*	%	Sim. to ISO 62
Density	1170/-	kg/m³	ISO 1183

Injection

Drying Recommended	yes
Drying Temperature	80 °C
Drying Time, Dehumidified Dryer	2 - 4 h
Processing Moisture Content	≤0.1 %
Melt Temperature Optimum	245 °C
Min. melt temperature	235 °C
Max. melt temperature	260 °C
Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	70 °C
Min. mould temperature	60 °C
Max. mould temperature	90 °C

Characteristics

Processing	Injection Moulding
Delivery form	Granules
Additives	Flame retardant, Non-halogenated/Red phosphorous free flame retardant
Special characteristics	Flame retardant, Heat stabilised or stable to heat